

Geology Student / Faculty Publications
(Student co-authors are noted with asterisk)

Peer-reviewed Publications

- 2012 **Amidon, W.H.**, and Farley, K.A., 2012: Cosmogenic ^3He and ^{21}Ne dating of biotite and hornblende. *Earth and Planetary Science Letters*. 313-314: 86-94.
- 2012 **Coish, R.**, Kim, J., Morris, N.*, and Johnson, D.*, 2012: Late stage rifting of the Laurentian continent: Evidence from the geochemistry of greenstone and amphibolite in the central Vermont Appalachians. *Canadian Journal of Earth Sciences*, 49: 43-58.
- 2012 **Munroe, J.S.**, 2012: Physical, Chemical and Thermal Properties of Soils Across a Forest-Meadow Ecotone in the Uinta Mountains, Northeastern Utah, U.S.A. *Arctic, Antarctic, and Alpine Research*, 44: 95-106.
- 2011 Lamb, M.P., Scheingross, J.S., **Amidon, W.H.**, Swanson, E., and Limaye, A., 2011: A model for fire-induced sediment yield by dry ravel in steep landscapes. *Journal of Geophysical Research F: Earth Surface*, 116: F03006.
- 2011 **Amidon, W.H.**, and Farley, K.A., 2011: Cosmogenic ^3He production rates in apatite, zircon and pyroxene inferred from Bonneville flood erosional surfaces. *Quaternary Geochronology*, 6: 10-21.
- 2011 **Manley, P.L.**, **Manley, T.O.**, Hayo, K.*, and Cronin, T.M., 2011: Small-scale Lacustrine Drifts in Lake Champlain, Vermont. *Journal of Great Lakes Research*, 38: 88-100.
- 2011 **Manley, T.O.**, McCormick, M., Gascard, J.C., Tillier, P., Hunkins, K.L., and **Manley, P.L.**, 2011: An Initial View of Subsurface Lagrangian Observations in Lake Champlain; General Patterns, Cross-lake Flow and Coastal Currents. *Journal of Great Lakes Research*, 38: 76-87.
- 2011 Laabs, B.J.C., Marchetti, D.W., **Munroe, J.S.**, Refsnider, K.A., Gosse, J.C., Lips, E.W., Becker, R.A., Mickelson, D.M., and Singer, B.S., 2011: Chronology

of latest Pleistocene mountain glaciation in the western Wasatch Mountains, Utah, U.S.A. *Quaternary Research*, 76: 272-284.

- 2011 Carlson, B.Z.* , **Munroe, J.S.**, and Hegman, B., 2011: Distribution of alpine tundra in the Adirondack Mountains of New York, USA. *Arctic, Antarctic, and Alpine Research*, 43(3): 331-342.
- 2011 **Munroe, J.S.**, and Laabs, B.J.C., 2011: New investigations of Pleistocene glacial and pluvial records in northeastern Nevada, *in* Lee, J., and Evans, J.P., eds., Geologic Field Trips to the Basin and Range, Rocky Mountains, Snake River Plan, and Terranes of the U.S. Cordillera: Geological Society of America Field Guide 21, p. 1-25.
- 2011 Tingstad, A.H., Moser, K.A., MacDonald, G.M., and **Munroe, J.S.**, 2011: A ~13,000-year paleolimnological record from the Uinta Mountains, Utah, inferred from diatoms and loss-on-ignition analysis. *Quaternary International*, 235: 48-56.
- 2011 Ryan, P.C., Kim, J., Wall, A.J., Moen, J.C. *, Corenthal, L.G. *, Chow, D.R. *, Sullivan, C.M.* , Bright, K.S.* , 2011, Ultramafic-derived arsenic in a fractured bedrock aquifer. *Applied Geochemistry*, 26: 444-457.
- 2008 Roush, W.* , Munroe, J.S., and Fagre, D.B.: Using Ground-Based Repeat Photography and Spatial Analysis Tools to Detect Changes in the Alpine Treeline Ecotone, Glacier National Park, Montana. *Arctic, Antarctic, and Alpine Research*, 39: 297-308.
- 2007 Munroe, J.S., Farrugia, G.* , and Ryan, Peter C.: Parent material and chemical weathering in alpine soils on Mt. Mansfield, Vermont, USA. *Catena* 70:39-48.
- 2007 Munroe JS, Ryan PC, Carlson* H, Miller EK. Testing Latest Wisconsin Ice Flow Directions in Vermont through Quantitative X-ray Diffraction Analysis of Soil Mineralogy. *Northeastern Geology and Environmental Science* 29(4): 263-275.
- 2007 D.W. Rankin, R.A. Coish, R. D. Tucker, Z.X. Peng, S. A. Wilson* , and A. Rouff* Silurian Extension in the Upper Connecticut Valley, United States and the Origin of Middle Paleozoic Basins in the Québec Embayment, *American Journal of Science*, v. 307, 216-264.

* indicates undergraduate at Middlebury College

- 2007 West, D.P., Jr., Tomascak, P.B., Coish, R.A., Yates, M.G., and Reilly*, M.J. (2007) Petrogenesis of the Lincoln Syenite, Maine: Late Silurian-Early Devonian melting of a source region modified by subduction driven metasomatism, *American Journal of Science*, v. 307, 265-310.
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- 2006 Fisher* GB, Ryan PC. The smectite to disordered kaolinite transition in a tropical soil chronosequence, Pacific Coast, Costa Rica. *Clays & Clay Minerals* 54, 571-586.
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- 2003 Kim, Jonathan, Coish, Raymond, Evans*, Matt, Dick*, Gregory, Suprasubduction Zone Extensional Magmatism in Vermont and adjacent Quebec: implications for Early Paleozoic Appalachian Tectonics, *Geological Society of America Bulletin*, v.115, p. 1552-1569.
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- 2002 Ryan PC, Wall* AJ, Hillier S, Clark L., Insights into sequential chemical extraction from quantitative XRD: A study of trace metal partitioning in sediments related to frog malformities. *Chemical Geology* 184, 337-357.
- 1999 Hannula, K. A., J. S. Lackey*, E. Mattox*, G. McGrath*, E. Onasch*, and J. Wertheim*, "Syn-tectonic pluton intrusion during contractional deformation: microstructural and metamorphic evidence from the aureole of the Acadian Victory Pluton, northeastern Vermont, USA" *Journal of Metamorphic Geology*, v17, p. 271-286.
- 1999 Meyer, G.A., and Leidecker*, M.E., "Fluvial terraces along the Middle Fork Salmon River, Idaho, and their relation to glaciation, landslide dams, and incision rates: A preliminary analysis and river-mile guide", in Hughes, S., and Thackray, G., eds., *Guidebook to the Geology of Eastern Idaho*: Pocatello, Idaho Museum of Natural History, p. 219-235.

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- 1996 Prigo, R. B., T.O. Manley, B. Connell*, Linear, one-dimensional models of the surface and internal standing waves for a long and narrow lake: *Am. J. Phys.*, v. 64, p. 288-300.
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- 1992 Schmidt, J. C., and P. E. Grams*, "Response of bedrock-gorge alluvial sand bars to operations of large hydroelectric dams, Colorado River in Grand Canyon, Arizona and Snake River in Hells Canyon, Idaho and Oregon", in press.
- 1991 Coish, R. A., A. Bramley*, T. Gavigan*, and R. Masinter*, "Progressive changes in volcanism during Iapetan Rifting: comparisons with the East African Rift - Red Sea system", *Geology*, 19,1021-1024.
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- 1985 Coish, R. A., F. S. Fleming*, M. Larsen*, R. Poyner*, and J. Seibert*, "Early rift history of the proto-Atlantic ocean: Geochemical evidence from metavolcanic rocks in Vermont", *American Journal of Science*, 285, 351-378.
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Abstracts with Presentation

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- 2007 Gleason, Michael J., Kim, Jonathan, Coish, Raymond and Ryan, Peter C, Radionuclide-enriched groundwater, Knox Mountain pluton, Vermont: occurrence and lithologic controls, Geological Society of America Abstracts with Programs, v. 39, n. 1, p. 102.
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- 2006 West, David P. Jr, Tomascak, Paul B., Coish, Raymond A., Petrogenesis of the Lincoln syenite, Maine: evidence for Late Silurian-Early Devonian melting of a source region modified by subduction driven metasomatism, Geological Society of America Abstracts with Programs, v. 38, n. 2, p. 31.
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- 2003 Shakun*, Jeremy, Jeff Munroe, and Ben Laabs Last Glacial Maximum equilibrium-line altitudes and paleoclimate, northeastern Utah presented at the 2003 GSA meeting in Seattle.
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